

ABSTRACT

This invention provides a two-stage phasing plug located within a compression driver. The two-stage phasing plug housed within the compression driver may be coupled to a horn. The two-stage phasing plug includes first and second phasing plugs. The advantages of having a two-stage phasing plug is that the first and second phasing plugs may be simpler to manufacture, cost less and the overall dimensional tolerances may be tightly controlled. The higher dimensional tolerances may be obtained because the first phasing plug may be made from a unitary work-piece, and therefore, may be tooled and cut in the same machining set up. This allows the unitary work-piece to be machined and cut very accurately when compared to assembling separate components together during the manufacturing process. Since the most dimensionally critical area is the rear side of the first phasing plug, the tolerances of the second phasing plug may not be as critical. Thus, a more expensive material, such as steel, may be used for the first phasing plug, and less expensive material, such as plastic, may be used to manufacture the second phasing plug.

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